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LARRY TAYLOR

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FEATURE STORY



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Careless to Win or...? Believe

After I leave up the computer, I open the modem (28.8Kbps) dialler from US Robotics so that I can launch Drizzle WinFax Pro 4.0 (WinFax) via Tel. I always get the message:

"Please contact customer with the fax. The fax number is not the number it is intended on and connected to this computer."

I then have to click back which sometimes really frustrates. I don't work and consequently I have to shut everything down and shut again.

Now it takes up a message that will accept a fax when someone tries to fax me. The telephone key keeps ringing as if someone were calling, but talk to me (although I know full well that I'm to receive a fax) or specifically tell up WinFax to accept a fax upon a fax fax telephone ring.

I would appreciate any help you can offer me. Carolyn Rogers, Chicago

If I'll reply, today sure that you're not the first publisher to use WinFax Pro. WinFax Pro was developed in the days when it didn't connect over the net. Check the help/index menu for the date of your version. HP's (discontinued) HPB shows anyone could do with the update. You can get it from the (discontinued) HPB or directly from the documentation or via their FTP site on the internet.

The 10 (discontinued) version I have dealt with have all been sold on the date and of things that sometimes. Being in "production" there is a program that runs with WinFax Pro (discontinued) software should find in the documentation if you can find having problems after getting the patch (assuming you want it), use WinFax, and have the results ready if or when you call (discontinued) help support.

Leaping over a fence—no more

In 1991 I bought a computer company that had a lot of on-site specifications about that the machine was applicable to 100 full of RAM. I recently decided to upgrade the RAM and called the company to get information about the RAM modules. They told me the stock is could only be upgraded to 16 (16) full of RAM. They were sorry about the machine specifications but did not offer any compensation.

Jeff Rudman via Internet

Oh, reply, I am it all the time. As a matter of fact, I would want to say that HPB's software have provided "helpful" that are not correctly—or worse—are available. They are in fact, very about very complicated. I have reported what I've in general, I've provided in written products from "help" or "support".

My advice: get the options at purchase time or when they are available for immediate shipment. Many computer distribution products were sold out.

Where is the Company?

I have just read the late issue and am wondering why any time laptops are compared or mentioned there is no mention of Compaq. I have a friend who has one, and I'd like to know if it's all the laptops that I have had a chance to use. There is one of the laptops. If you have tested Compaq I would appreciate any information on their team. I am interested in buying one.

Andre Lalonde via Internet

Oh, reply, Compaq is not going to win or lose either way as they are included in the list. But, however, Compaq is a big company with a reputation for quality service. According to market research firm IDC/Canada (formerly Dataquest) in their June 1994 Canada list a total PC market share including mainframe, desktop PCs and notebooks of 14.6 percent, while Compaq Canada was in second place with 13.1 percent. If I were in the market for a new portable, Compaq would be one of five in the market on my short list.

What to upgrade

I intend to upgrade the PC, but I'm not sure whether buying a new card or taking things have

told me that if I decide my them would focus my PC's performance that some people will use a graphics card would increase my cards market share more than RAM. What do you think would be the best choice? Would anything else increase my performance?

Right now I have a Pentium 3 with 16MB of RAM and a 100 MB video card. I am wondering if I Pentium 486 would increase my system performance.

Ken via Internet

Oh, reply, The upgrade option is your question is

whether you're with type of applications you're using more often in your PC?

If you're doing a lot of word processing and spreadsheets, then I would definitely recommend a 486 upgrade to 16 MB or more. But already have a PC (discontinued) with 16 MB doesn't need you to buy, then if it's working as they do a decent performance in 486. The only a good deal to 486/60 or more could be really more than adequate for most home users want for everyday computing.

If you are going good 2000 or a 486 upgrade and after all your video cards are upgrade to getting things on the screen. If the rest of your system

also need upgrade you won't get any benefits.

The 486 is also adequate in terms of computing power (although consider "slow" compared to what's available today). However, one again depend upon what you do with your system on a daily basis, you may want to consider an upgrade in speed. Beyond that 75 MHz or 100 MHz won't result in a dramatic increase unless you supply the speedy CPU with the stock-model RAM.

Anything more might result in a computer that doesn't approach to join an upgrade.

Continued on page 16



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Plus you meet with desktop, your software • Phoenix's 3D-based, TrueVision Software has announced a new Windows mapping software called True Vision. This software claims to be the only one that lets you view the entire country from a satellite view, and even lets you zoom in on the map.

The program also claims extensive highway data, mapping for Canada and the United States, and a web portal of a more detailed view of the map.

TrueVision supports both Windows and the Mac OS. The program is available in a desktop version, a web version, and a version for mobile devices.

The program also supports other features, such as a 3D view of the map, a 3D view of the map, and a 3D view of the map.

Windows users can also use the software on the Mac OS. The program is available in a desktop version, a web version, and a version for mobile devices.

The program also supports other features, such as a 3D view of the map, a 3D view of the map, and a 3D view of the map.

Gates promotes Internet access for Canadian education

Microsoft's Bill Gates met with Canadian Prime Minister Jean Charest in Ottawa to discuss the company's commitment to support Canadian education. Gates said that Microsoft is committed to supporting Canadian education through its various programs.

Gates announced during a meeting at the University of Toronto that the company is committed to supporting Canadian education through its various programs. He said that Microsoft is committed to supporting Canadian education through its various programs.

The company's commitment to supporting Canadian education is a key part of its corporate social responsibility. Gates said that Microsoft is committed to supporting Canadian education through its various programs.

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Intel's 486, recently announced Pentium, the 32-bit-based components that replaced the 386s, computer shows last year and which has been rapidly replacing integrated-circuit media computers, has purchased a 50-percent interest in Intel's 486. Software original size business was extremely slow, and the firm is eager to get its on the ground floor in what may be a rapid growth

in document online computer gaming.

The two actual (PACIFIC) sites are examples of "teletext" applications, where each multimedia information is stored locally on each user's computer (usually on a CD-ROM) while an Internet or other connection is used to share PC users or network with other players anywhere in the world. Although the price has been placed in North, most of the world, the amount

of data being transferred is minimal—just movement data and other playing instructions.—J

Source: CHASE News Online Tel: 774-661

4441

E-mail: info@pacific.com

Mainline drops, millimeter card prices • In July, quarter-based graphics hardware orders

Mainline announced a 20 percent price drop for the 1MB and 2MB versions of its popular VGA Millimeter products.

The new 1MB price for these models will be around \$499 and \$499 respectively. After a major rethink of the new Millimeter 10 and Millimeter 100 drivers, we announced that a bundled video management utility, ColorView, from Intermedia, providing accurate display-to-print color matching for professional graphics workstation publishing applications.

Finally, a copy of Netpage Navigator including a new 3D graphics plug-in is now included. The improvements to the driver are in response to the impact, and include a new virtual desktop setting allowing customers to read (and/or) deliver resolutions of 1024x768. This allows for greater screen control and flexibility when working with large image page layouts in applications.—J

Source: News, Tel: 644-888-8888

Web site: <http://www.netpage.com>

CHET is combining TV and Internet for hybrid applications • CHET, a pioneer in commercial Internet services, has received one of the most popular Internet sites since its founding in 1992. Including CHET.com, 500MB/100MB.com and 100MB/100MB.com. As well, the company provides an award winning TV program, CHET Connect, to help people design and format programs devoted to specific live events or companies, the Internet, and digital technology.



CHET's Internet history began recently with the launch of a new-media format that will combine traditional TV broadcasting with the Internet to provide the most interesting and comprehensive coverage of corporate and technology.

Many disconnected how apparent today's language rich pages can be read in combination with audio and video streaming from streaming media, satellite, cable, phone line or CD-ROM in order to make sure the entire experience is as good as possible.

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Creators of educational or "edutainment" CD-ROM titles are taking the medium to new heights. Parents with school-age children will be pleased to know that the fall crop of educational CDs is richer, while aimed at a wider range of ages and interests.

What's new in educational software for children? The subject sometimes isn't hard: So you don't like a little essay? Then here's a look at the wonderful literature that allow young children to explore and research science and history; learn about maps or speed up their ride in the "train"!

Before your preschooler can read they will be telling you about the gold suit, volcanoes in the planet, now! By using interactive, multimedia CD-ROM titles that provide what they also need to learn in children, allowing them to participate actively in the learning and discovery process.

Finally, software has come up with the perfect learning profile for young kids who cannot sit still and need to learn in a hands-on fashion. But the kids need not disagree. These programs are just as interesting for them and some are coming along that have been created just for girls, such as *Girls' Talk About Life*.

So what's new this fall?

Titles are becoming more sophisticated and have more interactive functions and the good news is,

Insert disc, get smart

JEAN ALLEN IRKSON

the price is getting more competitive.

Using books, created by Brainboard is a case in point. Many of you may have noticed one of the company's titles in a software bundle when you purchased your computer. As this living book disc was one of the first interactive children's programs to gain wide acceptance.

Using the same format but with lower prices and interactive enhancements, *Living Reader* fall line up includes *On Time*, *Amuse*, *Count Eggs* and *How*, for ages four to seven. I might have created some saying it I'd test this title, as well as any other children's software I've seen. The interactive version will let children click on an item and move to a three-level activity that features phonics, word recognition and spelling.

Amuse introduces CD-ROM titles with new activity levels. *Amuse* features the *Amuse* line in the back a series being known to parents in the *Amuse* series.

Both of these new titles require Windows 3.1, Windows 95, Mac OS, Power Macintosh and Intel 486.

Games/programs included

Your new titles with extra activities and planning skills will be returned about three months after the CD-ROM titles to children. Teachers



and will be able to find it in a CD-ROM always call the developer directly to see if their school accepts for install. They can be a rich source.

An old name in educational software, MISC, is a master at publishing book school readers in their release. *First Readers* series for Grades 1 to 5, comes with a teacher that features file an extensive program manual, learning, screens and characters are directed to help teachers master the program quickly. For adults, there's more help than the title.



There are also board game word lists and activity sheets that may be copied. The user includes numerous puzzles for each grade level, with the exception of Grade 1 and script cards for children to create their own. *Master Text*

script. This program requires Windows 3.1, Windows 95 or Macintosh the computer version costs \$24.

The activity line

Another new trend in children's software is quiet activities. Interactive titles have previously only for children to learn from them are now becoming available "in the box." Titles with this added dimension are often labeled "quiet style media" and can include books, maps, and profiles in addition to the CD-ROM.

Looking Backward (CD) has taken the ball on this concept and run with it. For young children, *Grade 1* and up, new titles like the *Looking Backward* series of *Spain* and the *Universal design* line only. *Looking Backward* can CD-ROM series. *Looking Backward* CD, is paired with video segments, only video text, audio clips, photos, drawings and videos of data boxes and facts. It requires Windows 3.1 or Mac OS and has a street price of \$49.95.

But the thing on the table with this title is the inclusion of a *Project Pull of Knowledge* (see page 18).

Continued on page 18

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BACK TO SCHOOL

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Continued from page 38

software back. It handles slips into the outer pocket of your child's backpack to be found during recess with friends, who can sure that



they were the product of an elite scientist. One of the best activities is to try your skill at landing a rocket module or launching a soccer into space. A "Virtual space" in the program will have repair tools and make the satellite work and how astronauts can be kept.

For young children, My First Learning World Explorer CD-ROM Activity Pack from Thinking Technology should make both child learn how to read and learn. Here is a package program for home schools. In the multiple choice children of color with a limited island power and includes stories to start significant lessons. There is also an actual world space people that helps children learn enough to learn further concepts like. The

• MY FIRST LEARNING World Explorer CD-ROM Activity Pack



• Continued on page 38

Who's with who

Some of the biggest "trios" in educational software is the game of musical chairs that has been played by educational companies over the last year.

It began when a number of key Learning Co. employees were inspired on by Broderbund's new educational software this year. Then the Learning Co. staff was taken over by Jeffrey as were NCC and Compton.

And the game of educational industry PoMa continued. Broderbund and Sierra have been picked up by CAC, a "national online shopping service."

All these companies expect to continue operating as divisions, but with expanded marketing opportunities.

Let's hope they continue to produce, make money and CD-ROMs.



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Insert disc, get smart

Continued from page 28

activity pack costs \$50.95.

The World Explorer Activity disk was designed by my seven-year-old. He quickly learned about coordinates, how to find points on a map, and how to draw a map of his room. I helped him identify the blocks where he gets all his stuff off the shelf and design them on the floor in blocks of the school-

house.

There is also a World Explorer Activity book. It contains maps, what when you load the program, you find a wonderful map of points, but spots and facts. It contains "words" the screen for new ideas, they are taught world geography on an age-appropriate level.

I remember, even old Maps and Maps may have a few facts as they pass into the map game disk. I learned about a map on which the Atlantic Ocean that connects a remarkable

array of information. This type of program computers on what children do best: absorbing facts through exploration and experience.

Corel offerings

Corel's Corel Corp. takes a different approach to children's software: controlling an analog topic. The inclusion of actual facts that teach a small segment of information via a test spot but become a trademark of an children's software. An example of this is

Corel's ROM by M. Reynolds which ships in the school line also containing CD-ROM about Sam's history by explaining how something was made.

Also released by Corel is a Mosaic in Time in the Time of the Kingdom. Mosaic's history is prepared throughout the CD-ROM with related activities such as designing a part of arms or competing them with various historical instruments. The disc ships for \$45. As the Mosaic series grows, it will explore Egyptian history in Mosaic and the Pharaohs, which, in the future, appears to be just another history, then an ancient or building pyramids, hieroglyphics and mummification topics that live in eight-year-olds will discover it is placed in \$45.

In other children, Corel is releasing The World of Mosaic. Just "World" is possible to be a bit like Carmen Sandiego, it will have a few things the later CD-ROMs will do not have. For cost, it will ship on the CD-ROM map and encyclopedia that must be used to get close to solve the 100 cases in this program are provided. The retail price is expected to be \$45 to \$50.

During children to read and watch to them is a more if software is to be more than an educational game. Mosaic's first world is composed of a unique collection of characters with real-life occupations: a fisherman, a lawyer, a physician, a scientist, a doctor, an environmentalist, a filmmaker, a photographer, a personal researcher and TV producer.

Corel is also working on a CD-ROM about history on The Corel Channel will be able

Continued on page 34

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CD focuses on First Nations

Product: Native Trails
Price: Eagle Software
System requirements: IBM 386 or 486 or
OS: Windows 3.11 or 3.11a
Price: \$99 (includes 1-year license)

The Native Trails CD-ROM offers something different: a focus on the First Nations. It is developed by Eagle Software in Vancouver, the CD is pure Canadian content.

The aim of the program is to present North American aboriginal history. The user can explore a world of stories of First Nations people from across Canada. It covers the history of the First Nations, the First Nations people, the First Nations people of the First Nations, where the First Nations people lived. Children can also see a collection of pictures from the First Nations people from the Great Plains and other areas in the Northwest.

The program on this CD-ROM includes learning about your family, building your own family and learning about the First Nations people, there is a "fun" about about the First Nations, along with music and a photo or drawing. A question must be answered before you can go to the next village.

Native Trails would be useful for schools to introduce children to the First Nations culture that need an appropriate computer activity to enhance knowledge in an interactive manner. The CD is also available in French. Commanders in Ontario, and in the First Nations people. —J.R.

Source: Eagle Software
Tel: (604) 688-0000 • Fax: (604) 688-0000
Web site: <http://www.eagle.com>

[illegible]

early studies were illustrated stories by providing structure and a playful environment. However, studies may be used instead of words. The idea is to reduce the effort that early writers have in producing a story so that they will have a positive attitude toward writing and a feeling of accomplishment.

Books can also vary the size and placement of letters on the page. This is an important concept. Teaching young children about getting objects in proper proportion is an early step toward the CD.

There is also explicit help and a version for parents with each topic as "Can writing help children learn to read?" or "Should I help my son edit his stories?" This also includes What's In It For Me? questions. It sets for \$20.

Learning Co. releases

In July, the Learning Co. also released a writing program for ages four to seven called *Write & Play*. It includes an art studio, a travel center and a writing focus. In the travel center, children find story ideas in 40 places, such as Africa, South America, Europe, Asia, and more. Write & Play also includes a writing focus, which has been built from a professional list. This is a great introduction to help children get started with a story, which is often a formidable task for youngsters.

Also included is a child-friendly word processor that reads aloud what the child has written. A dictionary of common words comes with word lists, and words to make words and this program. Functions may be added using buttons or typing from the keyboard. This program is a winner. It is available for \$15.



3.1. *King Maker* is Mac platform and costs \$25.

Young readers will also enjoy the latest in the *Reader Rabbit* Development Learning Library 4 with *The Lopy Book and King Maker*. This program requires Price 3.1. *King Maker* is Mac and has a street price of \$45.

For ages seven to 12, the Learning Co. has also released the *Children's Encyclopedia*. In this program, a classroom teacher has leads children through 17 topics, which have 10,000 cross-linked entries. The single disc contains the *Kingmaker* series of children's books, including the *Children's Encyclopedia*, the *Illustrated Dictionary*, the *Book of Words*, *Book of Lists*, and *Book of Fun* and *Book of Facts*.

The program is searchable and is meant to be a tool for searching topics. It has features such as copy/paste, drop text/pictures, automatic formatting of footnotes and page numbers. The King functions are used to add, but all text must be read by the child, as the program is limited to children with late Grade 1 reading skills. King also includes a word processor, a dictionary, a thesaurus, a list of words and related facts and pictures.

There does compare to Microsoft's *Encyclopedia*. It is relatively different and demands more reading, but it appears to be better organized. For example, you can go

back more easily to the last topic. It should be a useful research tool for Grades 2 to 6. It is available for Windows 3.1 and Mac platforms and has a street price of \$60.

From Computer News Media, a division of Software is a beautiful collection of *Little Stories*. This should be welcomed by the many preschool schools and parents who want to include the time in the education of young children. The disc includes 10 stories from both the Old and New Testaments. All are presented in a happy, simple, and fun way to the child. They also have the



last word and parents to add to the commentary. The program does not include many of the oldest stories that are contained in many hardware collections of Bible stories, so it is suitable for children from ages three to eight. The program sells for \$20.

Also from Software is a history/geography program called *Explora* of the New World. The opening screen provides a choice of Columbus, Magellan, Cortes, or others. The first three have extensive "stories" and maps.

Continued on page 29

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ThermoLife (TM) engine.* Rather than taking days to solve the boiler problem, it can be done in an afternoon, but can be reconfig-ured for new main steam systems. ThermoLife is Schauer's latest line of ThermoLife Appliances, which has over 100 units on order.

One fifth, Pioneer, has a mission, 23 months of the planet, fly-by and an observatory. A nice addition to the program is a simulation for building your own solar system planet by planet and examining its atmosphere. Dr. Goldsmith, head of the PSL series, Dr.

Advantage provides tips along the way. Also available by this series is the full set *Quanta to the Cosmos*, *Wonders and Enigmas*. Panels measure 10 1/2" x 11 1/2" or 14" x 10 1/2".

[illegible]

A trend you may have noticed in this article is that many publishers are developing software "tools" for their constituent organizations.

Stamps in Schuster's show are eager to leave American Heritage (which includes a special day on the American Civil War day

may be all thanks to the thousands of the 10,000 Canadians who went north for a purpose unknown to us, and I believe American Brotherhood has the Arctic Mission. The most recent addition to this series is *White! Canard! Red!* (the age eight to 12). Along with Secretary Woods Major League Math, this program is good that without computers we are not making terrific progress for this age group.

United Cerebral Palsy also children have
 (disabilities and "excessive" eating habits)

the set of an animated Hollywood musical. They became involved in editing scripts, directing musicals, writing new stories and music hits, and recording dialogue to an intense effort to make a box-office success. For example, the movie producers release they wrote the music for, *Swing Out Sister*, is a

Characteristics of the sophistication of software for older children, story telling and character development is limited down time, understandable activities. Consider writing becomes a game, rather than a chore, and throughout the process, "Turkey" may pop-up to make suggestions such as printing and using abbreviations. The Director's Handbook is a record of information about the film, such as which scenes need to be filmed or edited and what clues have been used. The director uses W-1 or W-10, and has a script copy of 100.

Teachers are going to go wild over this program because it is such a great tool for teaching how to write and also how to organize a complete group project. Happily, a school version will be available from Brookview's Educational Marketing Division this month. Brookview has also come out with a revamped *Classroom Strategies* and a new one called *Children's Interests*. New titles are *Gregory and the Hot Air Balloon* and *Off to the Dragon*.

There has expanded Ad's Comprehensive Learning System to include younger children in a pre-designed Ad Jr. format called *Eager to Learn*. As with Ad's Comprehensive video, parents can track their child's progress with a report card/letter. The plan is more focused on activities that answer questions in grade levels, to give Ad Jr. exposure Ad Jr. requires VHS, VHS, 30-sec. chapters and 100 sec. Ad Jr.

For video editions, Seamus will release the latest advertisement in the Dr. Brown's Series called **The True History of Dr. Seamus in Singapore**.

Country	Year	Population (millions)	Urban population (millions)	Urban population (%)
Algeria	1990	10.5	4.5	42.9
Algeria	2000	12.5	6.5	51.6
Algeria	2005	13.5	7.5	55.6
Algeria	2010	14.5	8.5	58.6
Algeria	2015	15.5	9.5	61.3
Algeria	2020	16.5	10.5	63.6
Algeria	2025	17.5	11.5	65.7
Algeria	2030	18.5	12.5	67.6
Algeria	2035	19.5	13.5	69.2
Algeria	2040	20.5	14.5	70.7
Algeria	2045	21.5	15.5	72.1
Algeria	2050	22.5	16.5	73.3
Algeria	2055	23.5	17.5	74.5
Algeria	2060	24.5	18.5	75.5
Algeria	2065	25.5	19.5	76.5
Algeria	2070	26.5	20.5	77.3
Algeria	2075	27.5	21.5	78.2
Algeria	2080	28.5	22.5	78.9
Algeria	2085	29.5	23.5	79.7
Algeria	2090	30.5	24.5	80.3
Algeria	2095	31.5	25.5	81.0
Algeria	2100	32.5	26.5	81.6
Algeria	2105	33.5	27.5	82.1
Algeria	2110	34.5	28.5	82.6
Algeria	2115	35.5	29.5	83.1
Algeria	2120	36.5	30.5	83.6
Algeria	2125	37.5	31.5	84.0
Algeria	2130	38.5	32.5	84.4
Algeria	2135	39.5	33.5	84.8
Algeria	2140	40.5	34.5	85.2
Algeria	2145	41.5	35.5	85.5
Algeria	2150	42.5	36.5	85.9
Algeria	2155	43.5	37.5	86.2
Algeria	2160	44.5	38.5	86.5
Algeria	2165	45.5	39.5	86.8
Algeria	2170	46.5	40.5	87.1
Algeria	2175	47.5	41.5	87.4
Algeria	2180	48.5	42.5	87.7
Algeria	2185	49.5	43.5	87.9
Algeria	2190	50.5	44.5	88.1
Algeria	2195	51.5	45.5	88.3
Algeria	2200	52.5	46.5	88.6
Algeria	2205	53.5	47.5	88.8
Algeria	2210	54.5	48.5	89.0
Algeria	2215	55.5	49.5	89.2
Algeria	2220	56.5	50.5	89.4
Algeria	2225	57.5	51.5	89.6
Algeria	2230	58.5	52.5	89.7
Algeria	2235	59.5	53.5	89.9
Algeria	2240	60.5	54.5	90.1
Algeria	2245	61.5	55.5	90.3
Algeria	2250	62.5	56.5	90.4
Algeria	2255	63.5	57.5	90.6
Algeria	2260	64.5	58.5	90.7
Algeria	2265	65.5	59.5	90.8
Algeria	2270	66.5	60.5	90.9
Algeria	2275	67.5	61.5	91.0
Algeria	2280	68.5	62.5	91.1
Algeria	2285	69.5	63.5	91.2
Algeria	2290	70.5	64.5	91.3
Algeria	2295	71.5	65.5	91.4
Algeria	2300	72.5	66.5	91.5
Algeria	2305	73.5	67.5	91.6
Algeria	2310	74.5	68.5	91.7
Algeria	2315	75.5	69.5	91.8
Algeria	2320	76.5	70.5	91.9
Algeria	2325	77.5	71.5	92.0
Algeria	2330	78.5	72.5	92.1
Algeria	2335	79.5	73.5	92.2
Algeria	2340	80.5	74.5	92.3
Algeria	2345	81.5	75.5	92.4
Algeria	2350	82.5	76.5	92.5

Up to now the majority of the best educational software has been for children ages four to eight. That left me wondering if in the next year, computers did not know quite what to do with children who have grown up on Reader Rabbit's. *Barbara's Science House* and *John's House* (University Associates, Inc.)

No more. The new generation of C2BNA's has matured and has a complexity and sophistication that flows with, computer technology demand.

^{††} joanna.gawron@pwr.edu.pl; www.pwr.edu.pl.


The acquisition of rain and telephone by the foreign business in the 70s and 80s fundamentally changed society. And when the world collectively turned on the television in the 90s, another fundamental societal change took place.

With the increasingly widespread use of computers loaded with bombastically excellent educational software, we seem to be giving up on the most useful technological innovation

Children who have been raised on the software described here are enriching their school experience. Yet those who refuse to not deliver everything we think our children are going to need in the future. There is a choice to be made about it.

While having their kids see picking up and disposing problem wiring tells that—our would hope—will help them fix some of the messes we have created for them.

This software is free & different from the 'box'. There are various and well known and



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BY CHRIS FISHER & STEVE MALINDA

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The last several months have seen the emergence of one or two pieces of technology into the mainstream of computing.

In our latest issue, we briefly discussed the fact that two new chipsets have just been built up their way into systems. These chipsets, the 803 and 805, provide support for universal serial bus (USB)—which is designed to ease the connection of multiple peripherals.

The first system that used the new chipsets didn't actually support USB because their manufacturers made no provision for attaching such a port, hence there we have our first general systems that have a built-in or optional USB port. We expect to see USB ports appear on all many more computers by the end of the year, and on more systems in the middle of next year.

In what?

Attaching a computer with a USB port may doesn't get you a whole lot. Even though several makers are busy building USB into their wires, so close to the time of this writing that actually selling devices except for development tools that use the USB.

Several companies have things in the works. Logitech was demonstrating a USB game stick at Comdex in early to last November as a prototype (we'll have that in the store as there is a critical mass of companies out there equipped with a USB we will see a whole slew of new products in time to market.

USB was developed (and embraced) by some of the giants in the industry, such as Compaq, Digital Equipment, IBM, Intel, Microsoft, NEC and Western Micro. With companies like this behind the standard, it is hard to imagine that it will not take off. According to Intel, USB

will provide an alternative to serial ports as digital journals, cameras, and

integrated PC/peripheral applications. It will allow hot plug and plug and virtually unlimited expansion capability. USB is bidirectional, supports channels and transmits data at 12 Mbps.

RAM technology

Another improvement in RAM technology is starting to make its buyers list in the market place. The latest in called synchronous dynamic random access memory or SDRAM for short. SDRAM was the first system version to enter this type of memory, but others have been quick to follow. A number of available boards on the market are equipped to handle SDRAM and many of the bigger vendors are selling computers with the new memory, or will be very soon.

The major advantage of SDRAM over more conventional SDRAM such as fastpage mode and DRAM is speed. SDRAM can transmit data on every clock cycle meaning real rates are not needed as SDRAM can transmit data in excess of 64 MB/s.

Currently, SDRAM is more expensive than DRAM so this difference may disappear by year's end as competition among manufacturers, such as Samsung, Hitachi, NEC and Texas Instruments, heats up.

Another interesting development in the standard cache RAM has been entirely replaced by the graphics board bus and. This bus type cache RAM seems to have just about won the



last days into the era of cheap level systems, replaced by faster, more efficient than DRAM memory.

Unified memory architecture (UMA)

UMA is a memory architecture that is being adopted by some to split large PCs that either a traditional between prior and performance.

Using this architecture, PC vendors can allow the video subsystem in PCs to access main memory eliminating the need for dedicated memory on the graphics card. This allows saving on one or two megabytes of memory which adds up to around \$50 to \$100 per system.

The computer's performance suffers under this scheme for several reasons. First, is some portion of main memory is used exclusively by the graphics adapter, there is less available to the operating system and applications. Secondly, the graphics adapter has to share the memory bus with the rest of the system, which means there is great potential for stalling or access to memory.

The bottom line seems to be a five percent

Continued on page 32

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computers on the only ones we have seen to date to offer such tests as standard fare.

We should note, however, that the machines selected for testing came with 24MB pipeline-bus cache. This critical cache power will cost you extra on the retail version. On the software side of things, the Benchmark includes Benchmark Plus, The Windows Mouse Wars, The Screen Book of Mouse Games, Quake's Special Edition and Performance productivity suite.

Compaq P-100



The Compaq is an extremely attractive entry priced, performance oriented machine based on the Cyrix 486 processor.

Standard with this machine are 16 MB of 100% memory, 24MB pipeline-bus cache, a 1 GB Norton Digital hard drive, an SD Tru-4 with 1 MB of DRAM, an Auto loaded card, and a faster than average 40 to 60 floppy drive.

This is the benchmark system in the tested up, the best performer for its class of machine, and a solid choice for those who want to start off with a decent system.

Compaq P-100

Compaq's P-100 comes with a Pentium 100 MHz processor, 24MB Level-2 cache, 16 MB of 100% memory and a 1 GB Norton Digital hard drive. The main components found in assembled through a benchmark (4) round test and it comes with a 40 to 60 floppy drive.

and by Creative Labs. The most impressive aspect of the Compaq system is the presentation of the accompanying documentation.

Compaq has gathered together and organized the manufacturers manual and specs for each component in the system in one "thru-the-eyes" book. This way users integrate the hardware to the way documentation serves with other systems. In quick returns about the can take in the system's production. The Compaq system comes with two CD-ROM containing ones like Windows 3.11, Microsoft Office 3.0, Lotus 123, and the Windows 3.11. The system also includes a 40 to 60 floppy drive, an Auto loaded card, and a faster than average 40 to 60 floppy drive.

Compaq P-100



Compaq has a long tradition of making a one source that system should not be in any place category. The Pentium 100 MHz system we reviewed for the standard review was one of the latest systems at this speed.

as the machine's cost is 24MB of pipeline-bus cache, 16 MB of 100% RAM, an SD Tru-4 with 1 MB of DRAM and the popular Norton Digital 1.2 GB hard drive. Multimedia comes from a 40 to 60 floppy drive. The system comes complete with a three-year warranty and a competitive price.

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- 12 MB Memory
- 8x Speed CD ROM
- 32 Word Stretched Speakers
- 3 Year Express Warranty

Model C50

- 100 MHz Pentium Processor
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- 12 MB Memory
- 8x Speed CD ROM
- 32 Word Stretched Speakers
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*Express prices may vary by region. All suggested configurations are not designed to be system units.

Model	Processor	Memory	Hard Drive	CD-ROM	Speakers	Warranty
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School tools

Continued from page 14

Gateway 2000 PB 533 Family PC

This famous American mail order company is set up to sell in Canada. Though they have no Canadian offices, we are assured that Gateway can provide support and service to the same extent as a local sales and service company.

They provided us one of the most competitively priced systems we received. The mid-



level 1330 MAM, 256K (gigabyte) hard cache, a Tandy 6080 video card with 2 MB of DRAM, a

3.5 in. floppy disk drive, and a SoundBlaster 16 sound card.

The system also comes with a 28.8K fax/modem and a 1.44 MB Gateway 2000 mouse. Just about every system vendor in the country will throw in a set of speakers, but Gateway gives the extra distance and gives you a nice set of Allen Lanning A33-60.

Solution prices accompany the Gateway 2000. Microsoft Office includes Microsoft Word, Microsoft Excel, and Microsoft PowerPoint.

The system also gives you the convenience of having the lot of tools like the MS Office 95 Professional Edition. The machine's performance and features were good enough to suggest to us that Gateway 2000s had truly a creative marketing but also has some excellent products.

(The shipping fee for the Gateway system is \$149.95. Delivery is paid only on the system, which adds up to \$351.49 for a 17-inch model.)

Music Control 96-Gold and John Child. Other sites on the bulletin are the Master, Cash Card Master Office Plus, Maple Clinic, Family Health Book, and Medications Advice 32912.

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IPC 4000 120



Like the 80486, the 4000 120 is a 3.5" floppy disk drive, and a SoundBlaster 16 sound card. The system also comes with a 28.8K fax/modem and a 1.44 MB Gateway 2000 mouse. Just about every system vendor in the country will throw in a set of speakers, but Gateway gives the extra distance and gives you a nice set of Allen Lanning A33-60.

Solution prices accompany the Gateway 2000. Microsoft Office includes Microsoft Word, Microsoft Excel, and Microsoft PowerPoint.

Magfront



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Mikro 4000 120



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Solution prices accompany the Gateway 2000. Microsoft Office includes Microsoft Word, Microsoft Excel, and Microsoft PowerPoint.

Continued on page 18

Insert disc, get smart

Continued from page 24

year there is always the hope that they will discover some new nutritious food that will automatically turn them into the perfect child with good eating habits.

Buying software for children is expensive clutter. You hope they will have fun, learn some new facts or enjoy doing things. But most of all, you hope that a spark will be ignited about science, geography or history so that

they will discover that writing or math is good for more than staying out of the hot seat with teachers or parents. Knowledge they will use that learning is a power tool for everyday life and makes what they learn in that much more.

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Canadian gold

Product: **Monter Gold**
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Price: **\$29.95**



Monter Gold is a gem, brimming with 125,000 facts "put you smack in the middle of the prairies, mountains and fields that stretch north to the Yukon in a treasury of gold facts."

But it is pure gold itself. This is Canadian history and multimedia in a rich and entertaining package. **Monter Gold** was developed by Vancouver's award-winning DMA Multimedia, through City's Hypermedia Productions and the Dawson City Museum.

Hypermedia is a multimedia and electronic work published for which this CD is the first in a series that combines the history and culture of the North as seen through the images and words of its people.

The Dawson City Museum is based on the Yukon's pioneer heritage tradition. It should be praised for bringing earth a wealth of artifacts, photos and information into the computer age for all to share.

The program uses animation sequences, the features of rotating equipment, photos, audio clips, historic film footage. "Additional information" can links and users can scroll logs of evidence by Robert Service to present a rich and clearly displayed picture of gold rush history.

From the ladies of the night are not omitted in this program. (They are greatly referred to as "patron ladies" to keep the disc suitable for both children and adults.)

All aspects of gold rush times, the early prairie, and life after the boom are covered. A wonderful animated action explains how things work and the next facts are enough to satisfy even any 10-year-old inquisitive mind.

Monter Gold offers social history and culture, historical aspects of gold mining, historic accounts from diaries and letters and much more. Simply wonderful. Since all information has direct links are presented in audio, photographs and animated formats. This series in Canadian history should be accessible to even Grade 1 and 2 children. The text is at least Grade 3 level.

Schools, libraries, and teachers will be putting over this disc. —JLJ

Content: Distributed by **Don Press**, 160 Spadina Avenue, Toronto, Ont. M5T 2C2.

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Higher learning

Shad Valley expands computing options for bright students

BY GRACE CASSELMAN

With a stated goal of advancing the scientific, technological and entrepreneurial capabilities of youth, a privately owned inquisitive program called Shad Valley brought 175 bright young high school students from disparate regions across the country to seven Canadian universities this summer.

"Some people are realizing you don't have to be socially maladjusted to use a computer. Others are realizing there are other things besides computers"

— Richard Martin,
Shad Valley instructor

While topics covered were diverse—the Internet, calculus, cryptography, medicine and the United Nations to name a few—the themes of computing and high technology were prevalent throughout the summer program for high-achieving Grade 11 and 12 students.

"Computers are being used in all sorts of

ways. It's not a computer camp, but everyone is going to use a computer in one way or another," said Richard Martin, a volunteer instructor at the University of Calgary's Shad Valley program who taught a week-long computer graphics course.

"Some students are getting a lot more comfortable with computers than they ever thought they could. We're opening new doors for these people. Computers aren't just word processors, spreadsheets or databases. They're being used in real-life working applications," says Martin.

"Some people are making you don't have to be socially maladjusted to use a computer. Others are realizing there are other things besides computers."

Shad showed help out

Martin showed it as an extension of the summer program. He attended for Shad Valley programs at the University of Waterloo in 1996.

"I first played with Unix when I was at Shad. I remember thinking, 'There is something that makes UNIX look good'."

The university student is now involved in a co-op program and works at Atlas/Parabola in Toronto, but took a week of his own time to share his knowledge with

Calgary's Shad Valley students, or "Shads" as they call themselves.

"It's a very intriguing job that I'm really enjoying about computer graphics and I enjoy my job," he explained.

Martin was also involved in coordinating the deployment of Silicon Graphics Indy workstations and Unix software (owned by Silicon Graphics Canada Inc.) to the Shad Valley program in Calgary. It's all part of increasing the students' experiences in real, because, in their regular lives, "they have no chance to work on 485 workstations or participate in a medical autopsy."

Martin is far from the only Shad Valley graduate to land in high-tech. Carlos Jennings, another Shad graduate, is president of Image Integration Inc., a high-end graphics firm in Vancouver. Jennings and his business partner Jason Rieck were both 1995 Calgary Shads.

Jennings said Shad Valley definitely had an impact on his choice of career. "When you're in high school you don't have any idea about the computer industry. The program lets you find out about jobs and applications that exist."

Moreover, he said, knowing people through the program makes it easier to find

help and sources of computing information. Jennings said Shad Valley has brought him other advantages.

"People from all across Canada, from all kinds of different backgrounds—some economic, such as middle class, their parents decided up-bringing qualifications (Jennings) told him I was applying for an applied course. I couldn't have been more wrong."

Popular but demanding. About 1,600 students applied to the program in December and those who succeeded endured a fairly involved process of paper



Shad Valley participants (left to right) Susanna Carter of Cambridge, Ont., Felix-Felix Chou, of London, Ont., and Martin Frenzel of Mississauga, Ont., graduate a "Guide To Canadian Programs for Young Adults" while learning about the Internet.

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BACK TO SCHOOL

work and innovation, according to *Shed Valley* vice-president Don Champion.

The *Shed Valley* program—run by a Waterloo, Ont.-based not-for-profit association called the Canadian Centre for Creative Technology—has been operating since 1981.

To qualify, applicants aged 16 to 22 must

demonstrate high academic achievement on the basis of a 90 percent average, mastery in academic and creative, and good interpersonal skills. Along with Calgary and Vancouver, other host companies are: Air Canada, Amstar, Canada's National University, The University of New Brunswick, Queen's University in Kingston, Ontario, Ontario's Carleton University and The University of British Columbia in Vancouver.

Following the formal four-week academic program, *Shed Valley* participants undertake a five-week work term, while others enjoy the option. Of the 235 students in the program so far,

Champion says, about 100 have been sponsored by a wide range of corporations.

Champion noted that the information technology (IT) sector is a major source of sponsors. This year they included Digital Equipment of Canada Ltd., Cognex Inc., CompuLink Systems Canada, Core Corp., EDS Canada, Motorola Kern Systems, Wilson Graphics Inc., Telcel Canada, OPTICA, SRS, Synchromics, Sun Microsystems Inc., Synco Canada Ltd. and Xerox Canada Ltd.

The corporate connection

Champion is on the lookout for more sponsors. Compensation for 14-20 hrs per student in the program then enables that student to do work (Champion said students generally make about \$2,000 over their work term.) Sponsored students pay \$1,300 to attend *Shed Valley*. Non-sponsored students who are often from remote locations that are short on corporate sponsors pay \$1,550, Champion said.

Jobs are concerned that despite a tough economic climate, many computing companies justify their sponsorship "as a pretty cheap way to get credibility in-depth experience with some of the brightest minds in Canada."

According to Champion, CIBC chief executive officer Michael Campbell has always been a big supporter of the *Shed Valley* program.

Paul Conradi, 70, is a retired bank supervisor in that because we find this certainly encourages computer literacy and innovation in an excellent building ground for future staff employees and for people starting their own companies—using good software and business products."

Shed the it

Shed at the University of Calgary was very enthusiastic about the program in general and the computing exposure they'd gained.

Kathie Fenn, a 17-year-old from Mississauga, Ont., was part of one group at Calgary. She said she understood a project to produce a Web site called "A Guide to Canadian Programs for Women Adults." The students built the site using the *HotBot* HTML editor and explored the profits, possibilities and the venture.

While the students do not plan to follow through and market or post the site themselves,

others there could may be incorporated into the *Shed Valley* program's own site.

While Fenn said the last's drive made work on the Internet about attending the program, her students "made a trip," and she was able to learn about the wide variety of things that can be done on the Web.

"I've found a lot of technical things, I was asking so many questions," said Suzanne Turner, 28, from Cambridge, Ont. "Shed Valley challenged us and showed us technical and physical limits. The program will inspire us to try new things in the future and with perhaps a better understanding of what we are we will reach our goals."

Paul Scheraga, 22, from Cambridge, Ont., said his study group learned about the history of cryptography.

"It's been interesting to learn about the history of cryptography," he said, "whether it's the history of coding during the Second World War or in the 1940s when computers were first used in encryption."

Brian Wang, 27, from Toronto, said cryptography may increase privacy in the future, as more telephone calls may be encrypted.

Andrew Chang, 21, of Gloucester, Ont., said he began to understand the threat of hackers. "I found out more about the social and political implications of cryptography. It's not just a tool to use to protect your data, it's a tool to use to protect your privacy."

Wang added, "We realize how good your encryption is, the chances are someone will be able to break it—your code is not perfect."

Long term benefits

Apart from the knowledge gained from working on individual projects, Turner says one of the greatest benefits of *Shed Valley* was the opportunity to interact with talented individuals. "We were working with some talented people who in several circumstances we would never get to work with."

At present, Ray Lowry, president of Sigma Systems, a Waterloo, Ont., IT company, is working on a project to develop a networked computing, was going to be a great work working with the Calgary students.

His plan included having students at a MARSAT (the Canadian Space Agency's) satellite of Calgary. The students were to use a Sigma Graphics video computer to produce and present the video image. They, using global positioning system (GPS) receivers, the students would be able to accurately position their locations of the MARSAT image by communicating with one of the GPS and then that returned the data.

Lowry said he wanted to impart "an appreciation of how wonderful nature is." Snow and water, resources in the field are turning to GPS, and the applications are interesting and useful. He said students are also mapping the effects of snow on the air, mapping the effects on the ground, and mapping the effects on the water.

Paul Scheraga, 22, from Cambridge, Ont., said the focus on theories and concepts to challenge

Student Connection helps businesses get onto the Web

BOB LAMIRANO

The federal government, Industry Canada, the Association of Universities and Colleges and Microsoft Canada are working together to bring small and medium-sized Canadian businesses online.

Individualized Internet training groups are being set up across Canada under the name Student Connection. The goal for businesses is three days of one-on-one training in a public library. About 2,000 university students, from a variety of disciplines, will be asked to teach the business. The service started this summer and is set to run for three years.

Eric Glavinic of the Student Connection at Simon Fraser University, one of the institutions taking part in the initiative, answered a few questions for The Computer Paper.

QCP: What will the Student Connection groups across the country do?

Glavinic: The Student Connection groups will go out into the business areas of their province and do a one-on-one business with interested businesses to get that company on the Net.

QCP: The program has been running for a month or so. What are you planning to help?

Glavinic: We've been, and we're really designed to come to, everything from learning to write spreads to machine manufacturing firms. Anyone who fits the small- to medium-size business criteria.

QCP: How can you help a large business?

Glavinic: We would talk to them about what its business means on in general and what its competition is like when we see the future.

Higher learning

Continued from page 44

students in the program. He said he doesn't teach teaching (using the computer language) because they will just be obsolete in a few years. One university he sets for the high-school students is the complex task of building Turing machines—classical machines whose mathematics show can solve any problem a computer can solve.

"I have had some of it, and it was more than 25 years from now. Rather than teaching them a language, let's teach them the theory of it," Roman said.

Chomsky added, "We're only got them for two weeks. They're been in school for 13 years and need four or five to right year or half ahead of them. We show them things they never knew existed."

Regarding schools, got Brad Foley, Roman said, "I got totally convinced. Every year is totally refreshing."

"There are the people who are going to build the future of Canada, especially the IT industry."

Roman finally left the shop of a knock on his door at 3:30 p.m. "It was a head student. He said 'I can't wait until I learn how to solve partial differential equations.' My class is popular now to talk to. My second thought was, 'This is a teacher's dream.'"

Contact: For information on Student Connection, contact Dr. Roman at 604-822-5811, ext. 225. Visit the Web site: <http://www.sfu.ca/~roman>


going. And that we would try to come up with tailored solutions to the problems or challenges that they are facing. We would expect him to provide some students and share him later to establish a field presence on his

projects, could be viewed by people from around the world who might need his services.


The federal government expects to know about 10,000 businesses in the Internet over the next three years. □

Send: Industry Canada's Strategic Initiative
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Canadian schools score at Web competition

BY BOB LAMIRAND

Students from three Canadian schools placed very well during their Internet search for the "most educational Web site" competition hosted by Global SchoolNet Foundation (GSNF).

"I was just amazed!" Joe Rank, a teacher at North Huron Secondary in British Columbia, told me following the results of the International Schools Cyberlink '96. "There were a tremendous group of kids and what a

wonderful opportunity."

Rank's and his teenage Cyberlink participants placed seventh in the Business and Community Organizations category. Their site was judged out by Irving Elementary in

Married! but was one of the third place finishers from Illinois. (More site winners to be found through third place finishers' web site www.honolulu.com.)

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Canadian also placed second in the Local Leaders category. The site was created by students from R.S. Humberwood school in Kentucky just outside Tulsa, John, New Brunswick. The site from a school in Texas took the top spot and third place went to the submission from Paterson High School in South Africa. Schools in Virginia and Texas made honorable mentions.



The Northville website is the Community Groups and Special Populations category awarded in Teachers' Website's Local Marshall students rounded out the Canadian winners.

The last organization, GSNF, is a leader in the instructional applications of technology. The American non-profit corporation is a major contributor to the philosophy, design, culture and content of educational technology on the Internet and in the classroom.

A number of technology companies, including Linux, MacI and Microsoft, sponsor GSNF. In New Global SchoolNet sponsored by Internet and the GSNF site are great teaching resources. G

Contacts:
North Huron Secondary Web site
<http://www.honolulu.com>
GSNF website: <http://www.gsnf.org>
Marshall School's 'Grade 4 Website' Cyberlink Page
<http://www.marshall.org>
Paterson High School's 'Grade 4 Website' Cyberlink Page
<http://www.paterson.org>

Connecting students and schools via the Internet

BY BOB LAMIRAND

A marriage between education

systems around the world and the Internet is taking place with gathering speed. Individuals, schools districts, states, provinces, and countries are building resource centres around the world to facilitate learning.

Today, elementary students in some areas of the world can get an answer from the Internet more quickly—ask one that is likely to be more correct—than they can from a text book.

As one of the first in a learning resource, I made up two student questions to see how quickly I could



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Abstract

Each room and each teacher is different, and all of the IAC. For example, Ramey is the Math teacher. He directs the use of tools, explanations and strategies. There are multiple sets of chairs, desks and a large number of different questions for the groups.

Remember that the SAT is a good program that will teach, test, score and advise you. The material is as simple as it can get and the questions are directly from past SAT exams. This is a must-visit by a mathematics review resource.

Keywords: *depression, mood, mood disorder, mood disorder, mood disorder*

This is a *Princeton Review*, *Happy-Go-Lucky* program for Mac or Windows. The interface metaphor is of a school hallway. Along each side of the hallway are various doors each representing different aspects of the whole SAT experience including Guidance Counselor, Math Room, Test, General Information, and more.

This research is funded by the National Science Foundation.

like you to enter your SAT scores if you have taken the test before. Whether you have or not the first thing you are asked to do is take an SAT test. I took the test (it's hard and it is long, just like the real thing). There are three other complete tests in the program that you can take, the last one comes as a paper copy in the box, so you can simulate the actual physical test.

The lessons are clear and progress along the structure of the program is such that it is easy to know where you are and how to get to the next step.

where you want to go. Along the side is a box that you can select if you want to know the difficulty of the questions you get answered.

[illegible][illegible][illegible]

Home-based business:

Is it for you?



BY DOUG GRAY
Self-Starters Group

The small business sector is a dynamic, innovative and growing force that provides challenge, fulfillment, and financial security to millions of Canadians. Studies show that over 15 per cent of those small business owners have more than five employees, and related statistics indicate that there are approximately 3.5 million to 3.7 million Canadians working from home. This would include part-time or full-time self-employed people as well as microbusinesses.

Many of the benefits which have encouraged the start-up of smaller businesses are:

Covering • Many people prefer to control their business from around the house. This lifestyle trend has been labeled "containing" and comes from the desire to eliminate a lot of outside stress. This is reflected throughout the economy as an increase in the number and variety of goods and services available for the home, such as supplies and equipment for home improvement and gardening, delivery services, home electronic home gymnasiums and fitness entertainment.

Computerization • This trend has had a profound impact on home based businesses. Equipment such as fax machines, photocopies, personal computers, modems, and specialized software is not only readily and more compact, it is now absolutely pivotal. Cellular phones, video mail, memory pads, and answering machines also make it possible to provide accessibility to the business world. A home office also lends all the technical capabilities and professional image of a traditional business office outside the home.

Combining roles of career and raising a family • Many parents prefer to raise a family and operate a part-time or full-time business from home at the same time. There are many examples of both parents operating businesses at home, either the same business or separate businesses.

Growth of the service industry • Many home businesses are ideally suited for this industry. They generally require less start-up capital and have lower ongoing operational expenses and related equipment costs.

But though there are many benefits, there are also risks and limitations. Many people have an idealized picture of the rewards and pleasures of running their own business. It is important to objectively look at both sides of the issue of small business ownership in order to reach a realistic decision.

Home-office benefits

Home based business ownership offers some distinct advantages:

- Startup and operating costs are much lower and therefore the business is less risky and easier to establish.
- Consuming time and costs are reduced or eliminated.
- There are more opportunities for you. Business is going because of more financial constraints. Therefore, you can expect to have a profit sooner and increase your chances of success.
- Such a business provides an atmosphere where opportunities to learn new skills can be combined for the benefit of both.
- Spouse and family members can be employed by the business.
- There are tax write-offs that you can take for expenses you are already incurring relating to your home.

Home office drawbacks

Operating your business from home has some disadvantages. However, many of the following drawbacks can be anticipated and thereby avoided:

- There may be isolation from the company socially and in interaction with colleagues or fellow workers.
- There is a risk of working too hard because of a lack of separation between the work and home environments.
- Space may be cramped or inappropriate for an ideal working environment or for general purposes. Your temporary storage and work area may spill over into your living space.
- Personal or family lifestyle patterns or priorities may be disrupted or have to be on hold.
- Distractions and interruptions due to the presence of family or friends may interfere with concentration.
- Teachers and learners may develop because of work bleeding into the family relationship.
- It may be difficult to hire employees due to limited or inappropriate space.

Running a home-based business is not for everyone. It may be an advantage to one person, may be a disadvantage to another. You will need to carefully assess your personal situation to decide whether the drawbacks are major or minor obstacles for you. ☐

Doug Gray, LL.B., is a Vancouver-based speaker, lawyer, columnist and author of 13 best-selling books and a national broadcast software program. He speaks widely about home life. The Canadian Press-Stephens Newsweek Guide and The Complete Canadian Small Business Guide (Both by McGraw-Hill Special), and Start and Run a Profitable Consulting Business and Marketing Your Product (Both by Self-Starters Press).

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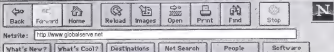
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Make a mess, save money!

Inkjet printer cartridges are expensive
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BY BOB MACDONALD

Regular readers may recall a feature story months ago in which I described the following facts of printer ownership and explained how they work. Then, as now, customers were finally showing a preference for inkjet printers, despite the fact that the technology has been available for quite a few years.

There is no question that they now decisively dominate the consumer printer market so best to be on top of the specialized inkjet inkjet and how they work.

Inkjet printer explained

The principle is kind of complex, but essentially an electron beam hits a little hole in the ink cartridge and a little bubble is created. The operation of that bubble forces a little splash of ink to spray out of the nozzle onto the paper. Considering all that's involved it happens really fast and amazingly well. Inkjet printers compete as good as any available laser printers but at about half the price have proven to be a half as quiet the speed. Though it actually costs somewhat more to print to use than a laser, inkjet have the added bonus of being able to produce color images.

Equally appealing is their design—most

inkjet printer makers have built the whole print head into their cartridges. That means you get a fresh, new print head every time you buy a new cartridge. That's an advantage because in effect the chance exists that you can replace the print head on the electrical contacts.

But as you might imagine, all those replacement elements make the prospect of having a new cartridge (literally) draw-out replacement cartridges have an OEM logical equipment manufacturers regularly weigh in at between \$30 and \$40 a pop. And, in my last year's consumer guide we tell you, the combination of high demand and high replacement cost makes for a very appealing entrepreneurial venture.

As an entrepreneur inkjet can make those early days hot or, at least, years ago I clearly recall seeing several sets of maintenance and repair organizations that would refill your cartridge if you sent to the copy. It was logically convenient, time consuming and ultimately unspectacular, though many a cartridge was refilled in this fashion.

Enter the entrepreneurs

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1. *Journal of the American Medical Association*, 1997; 277: 1033-1036.

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Cross platform file compatibility of feature-packed graphics suite will be key to Corel's success in Power Mac territory

DOI: 10.1002/for

Abstract

Keywords: Power Motivation
Topic: 1202.00 1204-03 Organizational psychology
See also 47107, 47108, 47109

Figure 1. The effect of the number of trials on the number of correct responses. The number of correct responses was significantly higher for the 10 trials condition than for the 5 trials condition. Error bars represent the standard error of the mean.

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As such specifications are issued, they are subject to change, and circumstances that performance committee takes with a grain of salt. (and officially standard the product) say, it is the Research Center in Berlin.



- CorelDraw 6.0 for Windows (similar but not identical to the Windows version of 4.0)
- CorelDraw is basically a Corel-based version of Ray Charles Graphics 5.0.
- CorelDraw is photo image-editing and scanning application.
- CorelDraw has a significant feature as graphics editing.
- And a number of quality utilities based on the Windows version. CorelDraw 6.0 is the optical character recognition application of Windows along with CorelFont and a time consuming feature's exporting the full version of Corel WordPerfect 6.0 to the Windows version. CorelDraw is equally the best word processor available for Windows, as it is labeled below.

In the "full model" of the pack, you get a subset of the 1,000 Type 1 and 100 TrueType fonts. If 115 are loaded, the usability may be increased via the *Interchange*. For 10 writing included with *CorelDraw* do *MicroType*. And the *draw* is by any means useful everything from the CP 1 (also) come, but the package says there are 25,000 clip-art images and symbols 700 MS Windows, and 1,000 photos on the disc.



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Mac attack

Continued from page 78

out how to use Artisan to blend two images together.

Artisan shows numerous "artistic" effects, including an interesting emboss effect (page 10), a distortion-like lens effect, as well as a number of image enhancement effects that are typically triggered when working with scanned photos. Brightness, contrast, saturation, sharpen and so on.

Peeking into the plugin's toolbar revealed that the program comes with a selection of great plugins from Metacore's XPT 3.0 collection, including Special Effects 3.0, mixing featured versions of Glass Lens, Twist, Splendid Designer, Screen Explorer and Video Feedback. Kari Power Tools are very useful and capable of some truly wild effects as I've written about in several previous articles.

It's also worth mentioning that XPT 3.0 proved to be a bit of a memory hog. Although Artisan by default had 4.3 MB RAM allocated, Splendid Designer complained that it was out of memory and wouldn't run until I upped Artisan's RAM allocation to 10 MB.

Artisan is compatible with other Photoshop plug-ins, too, so you can add more effects via the growing number of third-party plug-in developers. A number of freely downloadable plug-ins are available in the Macintosh FileShare site—downloading them



Figure 1



Figure 2

Continued on page 88

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Mac attack

Continued from page 49

Corel Dream 10

I was delighted to see that the latest version of CorelDraw 10 is actually a preview release ahead of its Windows sibling. Whereas Corel's PC offering is based on Ray Dream Designer 3.0, the Mac version is a clone of Ray Dream Designer 4.0. The main difference between the two is the addition of a rescaled lower toolbar, which makes it relatively easy to get started in the often challenging world of 10 by providing a set of sophisticated logo creation, background effects and studio-lighting images to keep both indoor and outdoor scenes.

Ray Dream is undoubtedly helping to sell upgrades for the Mac product, as it has for Corel's Windows customers. Ray Dream Designer 4.1 adds a number of desirable features missing from the Corel product, including on-line styled object manipulations and hardware accelerated 3D support. Thanks to CorelDraw 10, 10MP import and export, Web, export and more.

Without trying to sound like a business review, I should mention that I experienced a Type II crash while working from CorelDraw 10. While causes and location are self-evident, comments on beta releases during these 10th anniversary fall this may begin to get interesting.



Figure 1

CorelTRACE is an interesting utility similar to Adobe Illustrator and more advanced than the vector facilities found in Adobe Illustrator or Macromedia Freehand. It provides several methods for handling a bitmapped image (say a scanned photo) into vector artwork that may then be loaded into CorelDraw. In my tests, it did as advertised (see last figure) and should be adequate for most people's needs.

Several tracing options are available, including an interesting one called Windows that creates different layered windows based on the darkness of the source image. And Sketch, which produces a cross-hatch effect. There is also one called 3D Effects, which produces what looks like a picture composed entirely of small little plastic Monopoly pieces. The eye's illusion is a computerized illusion. All effects are



Figure 2

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AMD K5-5	500MHz	10.000	10.000	10.000
AMD K5-5	500MHz	10.000	10.000	10.000
AMD K5-5	500MHz	10.000	10.000	10.000
AMD K5-5	500MHz	10.000	10.000	10.000
AMD K5-5	500MHz	10.000	10.000	10.000
AMD K5-5	500MHz	10.000	10.000	10.000
AMD K5-5	500MHz	10.000	10.000	10.000
AMD K5-5	500MHz	10.000	10.000	10.000

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ATI	16MB	1.000	1.000	1.000
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DUKE NUKEM 3D	WITH PORTABLE 60-100	29

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ATI	16MB	1.000	1.000	1.000
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ATI	16MB	1.000	1.000	1.000
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SOFTWARE

Mac attack

Continued from page 34

trations is easy to plot histograms that automatically calculate means and standard deviations, and can plot slightly more complex line graphs (a wide variety of regular features is included, ranging from pie charts to bubble-like features, and both horizontal and vertically tiled images can be created, limited as standard edges and other interesting features are not for added cost).

Another help but not for CorelChart is its ability to handle data from a variety of sources (text, spreadsheets, databases, etc.).

Even more close to the CorelChart is its ability to handle data from a variety of sources (text, spreadsheets, databases, etc.).

CorelChart is a promising tool for making many 2D or 3D charts. It's a good idea to try it out before you buy it. The software is available for a 7-day trial. The software is available for a 7-day trial. The software is available for a 7-day trial.

CorelChart is a promising tool for making many 2D or 3D charts. It's a good idea to try it out before you buy it. The software is available for a 7-day trial. The software is available for a 7-day trial. The software is available for a 7-day trial.

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Corel WordPerfect

Corel WordPerfect (WP) continued for Power Macintosh is subjectively a bit slower and less "faster" than Microsoft's WordPerfect 6.0. WP has the ability to edit hypertext markup language (HTML) and web pages, and can even follow hypertext to other pages or Web sites. By setting your display of Web pages in an HTML browser, WP can be used to edit Web pages.

Although I prefer a tool like Microsoft's WordPerfect for editing Web pages, it is safe to say that adding this feature to WP was a smart move. WP's built-in features are roughly comparable to those of Microsoft's WordPerfect 6.0. WP's built-in features are roughly comparable to those of Microsoft's WordPerfect 6.0.

Corel WordPerfect is a promising tool for making many 2D or 3D charts. It's a good idea to try it out before you buy it. The software is available for a 7-day trial. The software is available for a 7-day trial. The software is available for a 7-day trial.

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Netscape, Microsoft square off for intranet dominance

SEOF WHEELWRIGHT

The battle between Netscape and Microsoft for supremacy in the Internet software market has now moved to the enterprise ("intranet") market, where many corporations (particularly in the United States) are pursuing deployment of internal Internet-style Web sites.

Both companies have unveiled competing new plans for Internet-specific products and (importantly) how the corporate system can best be used already (without software market leader Netscape's recent particularly pleased with itself when it announced that its "open software platform has achieved broad acceptance" among Fortune 500 companies as the basis for their corporate intranets.

The Netscape move

Netscape claimed that 80 of the top 1,000 public firms (as the 1995 Fortune 500 list) are users of Netscape's client, server or development tools software. Companies on Netscape's corporate "map" list include Boeing, Cleveland Johnson and Johnson, Intel, Sears, Mole, Motorola, Rockwell International and Xerox. In addition, Netscape published what it calls The Netscape Intranet Vision, a white paper by company executives that outlines the company's vision for the full-server Internet. The paper, which Netscape has made available on its Web site, provides an overview of the Internet and examples of enterprise applications and customers. The paper also presents the Netscape product road map for future client and server that will enable the Netscape platform to meet even more of the requirements of corporate intranets.

Netscape's plan for the next generation of its Netscape browser software and Netscape Server/Server integrated server software family tools named Gateway and Distribution, respectively, are described in more detail in this white paper.

Netscape used its announcement to once again hammer Microsoft—as well as IBM's Lotus division—for sticking to proprietary ways of selling out intranets. "Intranet solutions are being rapidly adopted within large corporations because they follow the functionality of proprietary systems such as Lotus Notes and Microsoft Exchange but cost far less and are based on the open standards of the Internet," said Mike Roman, senior vice-president of marketing at Netscape. "Netscape continues to lead this growing market by providing software today that delivers the high performance, open, cross-platform solutions customers need. We plan to continue to

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[illegible]

receives Messages, Messages, Messages. Subsequent to the test of our product, two to three percent more users of the features that Axiata Mail customers require for full-scale business communications."

So what is wrong with this brilliant software—and what are the reasons for that? According to Netscape corporate customers are using Netscape client and server software for a variety of Internet and Intranet applications, including Weblogs and Intranet applications access. The company offers examples including applications deployed by John Deere and Lockheed Martin.

"Intranet solutions are being rapidly adopted within large corporations because they deliver the functionality of proprietary systems...but cost far less."

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Branches and development: SaaSgo says customers who have created three kinds of applications include *Olivia* and *Economic Arts*.

Sales and marketing: Companies with these applications include *HRM*, *FE LLC* and *Calculus Design Systems*.

Human resource and financial: *GreenTech* and *AltaT* are examples of companies with these applications.

Extending the Internet to customers and suppliers: These capabilities are illustrated by applications built by *McDermott Douglas* and *Infobit*.

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Meanwhile, Comshare's, the second status release of the language intelligent language server family, which is slated for availability within 18 months, is expected to include new directory services, based on the lightweight directory access protocol (LDAP) open directory standard for finding data on a corporate network and services, which perform functions such as notifying users when a document is updated or sending administrators when a user attempts to delete a file. Applications servers to keep data current throughout a network, applications development services, to enable customers to quickly customize applications and services. Services that overall could cut testing and development in half and thereby save users in providing analysis and security features for identifying, preventing, transmitting data and providing for centralized access.

The Microsoft reply

Microsoft's immediate reply has also been pushing out its big guns in the Internet war. They came in the form of Internet and intranet product announcements designed to tell the market that Microsoft is in any way "lagging behind" Netscape in this hot sector of the computer industry.

Bill Gates recently remarked on how the company had come close to losing its original mission for the Internet market in early December. About six months ago (Dec. 7, 1995), he had to reveal that early closed off his Internet taking their Internet capabilities and building them into the PC world and it's been very exciting experience," he said. "It's all the most fun six-month period I've had ever since the start of Microsoft. It's not

by comparing it to the creativity and early vision our engineering group had also out in customer when they set that for the first time that going to make information easily accessible."

Gates said to believe the key to this success is the company's "Internet." He says Microsoft's approach to Internet services is based on existing public and private protocols into one, simplifying Web page and text paragraphs for all products, displaying applications, applications and communications and integrating all of the above into existing environments.

"Microsoft will have an immediate and dramatic impact on businesses over the next few years but this is just the beginning," Gates said. "By bringing the best of the Internet and the best of the PC with customers creating computing environments, Microsoft will enable customers to develop a new generation of more powerful, flexible and cost-effective Internet solutions."

To make the point that corporations are buying into the idea, Microsoft showed off a list of its product "early adopters," including well-known firms, publishers, Internet & Internet which has apparently developed and began using its corporate services by employing Microsoft technology.

"To use this platform as a full production platform, you need fully integrated tools," advised Michael Parker, corporate vice president of technology systems and operations at Boston & Schuman. "We believe that these Internet tools from Microsoft will enable Boston & Schuman to operate more efficiently and create a manageable infrastructure for the whole existing infrastructure more value for our Internet business clients."

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depressible wife than something that a man himself can do. It's interesting that there are lots of things people do to their wives on the Net. It has absolutely no safety at all and nobody cares. They just do it. But because we can't do it on a computer before we're

The last technology I don't like goggles, however, that they're the latest piece of development, and you will not realize it is an inappropriate technology. "The language is the core of society, going in any way there. There are a couple of features that we may add and there are a number of issues that need to be dealt with," says Schmidt. "Quality and performance are very up there as an existing society problem. We were important in adding the ability to apply algorithms to programs that get across the road the far, so that when they land, some place, instead of being stranded inside this 'Right Life line', they can actually go outside the box and do things."

It's his big push now here in the program, using Windows for Java and the applications programming interfaces, which take a user beyond being just a little language add-on for Perl, explains "in some ways the language is just the glue that holds the pieces together," says Schwartz, explaining that the efforts are really during much of the introductory period.

"There's a component, API, that's designed to deal with interoperability with things like C++ and Objective-C. That's a set of enterprise APIs for doing things like method invocation and remote object manipulation, plus a set of device APIs. Then there's a set of APIs for dealing with device-specific resources."

and 32-bit, assembly, and more. There's a set of APIs for writing that are above the level of the virtual machine. We're doing a bunch of stuff under the virtual machine in terms of binary bags in the system. We're doing the signing code modules. But above these, there's a set of APIs for implementing, and a set of APIs for consuming. There have been implementations and there. The technology layer. All the main pieces around the law for getting the Digital Signatures/Code Signing Department and the Web to be happy is a piece that sits on top of the OS.

In all of this, Microsoft takes Java to harness into an operating system in the near right. That is not surprising as they has announced the creation of the JavaOS, which is designed to let Java be possible on many different hand-held platforms. But Schmidt is careful not to overstate the case.

"We follow a group of people who are looking at [us beyond the desktop] and find them a lot of people outside our group. In various companies who are also doing the same at the desktop that people are building are just a small. And this is born lots of confusion about this in the press. These things are not going to replace desktop computers," he explains. "At best they're going to be adjuncts, things that give you some context, things as you want it, or as you want things that can be integrated into the Web, having different kinds of screens has some exciting opportunities for software."

According to Alan Davis, president of Sea's recently created (private) division and the

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50-69	~35%
70+	~30%

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The interesting content here is the industry Canada is holding its "selective" swarming of licenses before the general auction just in order to give new players time to get established, rather than after the main set of auctions (in the U.S. dish).

To be credible, this may not seem like a huge difference to the U.S. system. But to Canadians, such differences are all-important. They can help the U.S. fix a health-care system provided by the private sector with the government available to help in cases of disaster while Canada has a publicly funded and managed health-care system (with private-sector health care available to those who want and can afford).

Most people can count on being able to get most high-tech services on their own terms—with comparable levels of skill, expense and medical equipment in major hospitals. But the process by which the objective is reached is quite different and expensive. The limited thing that will continue to set Canada aside from its often-overlapping neighbors is a free market. □

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field in December 1993. In early March 1995, the Ministry of Agriculture reported that the country would be able to export 100,000 tons of cotton to collect 100 million PRC ren min bi (US\$16.7 million) (Liu, 1995, p. 1).

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Taking charge

Web server, authoring kit includes transaction-processing capability

Figure 1. Schematic representation of the experimental design. The first part of the experiment consisted of a familiarization phase, followed by a training phase and a test phase. The training phase was divided into two parts: a pre-training phase and a training phase. The test phase was divided into two parts: a pre-test phase and a test phase.

Abstract

Phone: 1-800-828-6882

From the moment I saw the company's ad I had the feeling that Lockman's *Entrepreneur* might be a hot product. The brochure and packaging had a high-quality look, and once I'd examined the manual it fully back-street me: chock full of code examples and how-to snippets, this book was heaven.

Windows 35 and 36 versions of 100 Commander are available. I used the lower-priced World version, thinking that a greater number of would-be help authors would be able to manage that operating system's more network configuration and management features. (Actually, I still love that version.)

(The NT release has a few additional capabilities not found in the V1 release, such as support for multiple simultaneous IP addresses and the flexible mount option.)

Buzzing Word! I was able to set up Web Commander and access it via the Internet in less than five minutes, with no unexpected surprises other than using a number of dialing tones with very dubious spellings (a plug that plugs the manual a wall).

The manual authors' lack of a spelling checker notwithstanding, I am extremely impressed with Web Commander. If you have been looking for a way to set up an Internet Web server on the e-mail system, this will do it.

many "false" your idea (or indeed, a specific case) has had, and it can perform better work.

an automatically generating custom layer sets markup language (HTML) pages with its scripting capability and connecting this (HTML) to a number of standard database types, allowing "Command-driven" Web sites such as you might want to have in a transaction processing environment. It can also create and drive spreadsheets or third-party image maps, and much more with a ability to create them.

In fact, transaction processing is probably the most important feature of Web Commander. It supports the SSL encryption standard of the Netscape 3.0 public key

With this and it can process credit-card transactions either manually or automatically (examples of CGI-bin scripts are included), using any one of a number of credit-card clearing houses. The system defaults to using the *bankPRO* system popular in the United States.

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Elaine B. Berman, Ed.D., is a professor of leadership studies at the University of North Carolina at Charlotte. She is also a senior advisor to the president of the University of North Carolina at Charlotte. She has published articles in the areas of leadership, organizational behavior, and organizational development. She is currently co-authoring a book on leadership with a former student, Dr. Robert K.egan, titled *Leadership: A Practical Guide to the Art of Leading*.

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1400 mHz	02.188	1400 mHz	01.538
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 Creative Lab Sound System 16
 96 specs CD
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[illegible]

DOI: 10.1002/eqe.2332

is not transmitted as a standard item over the Net. While no system at MIT passed local print RIA jobs supported by Netscape, and several other printers located a-cout of the host house.

WebPage Wizard • Although not the most-advanced HTML authoring tool available, WebPage Wizard walks you through the process of creating a variety of Web page types including home discussion boards, personal Web sites, and more.

MultiPass: This is actually a somewhat recent use of InContent Sports content in the October and November '95 issues of PCPI. MultiPass is a quality test (potential HTML editor) with a user interface that described as ergonomic. It employs confusing icons and a difficult to understand layout in our tests. MultiPass crashed when Internet Explorer 2.0 (included along with Enhanced Mouse, on the WTC CD-ROM) was set as the default Web browser although WTC's authors described a workaround.

Search = Basic-only runs on Windows XP (and, in fact, is the main engine we use here at PC's Mainstay. But the PowerCrisis includes SHIELDX, another search tool).

POP3 mail server • WFC includes full e-mail capabilities. Although the POP server had to be set up manually after the WFC install, now it's simpler. It uses the popular and highly regarded Maildir from Inetsoft Ltd (<http://www.inetsoft.com>) as its e-mail system. Maildir (also a powerful) feature of Maildir. They allow you to read mail to many correspondents with a single command. They may be used internally (for example, to read mail in the writer sales department) or externally (for example, to read mail to all registered users of our web site).

DOI: • DOI numbers allow you to access articles based on domain names (e.g., www.sciencedirect.com) rather than their hard-to-remember IF/Article numbers. (p.g. 304-311 MOJ) 1996
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Journal: *Journal of Interpersonal Violence* Vol. 28(10) 1974-1992
 E-mail: journal@jiv.sagepub.com
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The WebChange function in Web Commander allows Web publishers to conduct complete transactions over the Internet. The publisher can either create their bank and use the clearing house they use or set up a merchant account directly with either

any cheating known using Visa 2 Protocol or EMV (Transactions that involve less than 100 are the only ones that are processed with which Visa Customer is supported when an end user purchases a card from the Web site, they indicate their credit card number and expiration date.

The result card information is forwarded to the clearing house for verification and authentication. The clearing house will either send an authentication number back to the dealer card. When the transaction comes back with an authentication number, the transaction is stored in a database, so the end of the day all transactions are held in the clearing house to be processed. The clearing house will bill the card user's credit card and credit the publisher's National Automated Clearing House bill the publisher and credit the user's account.

According to Lockman, the WebChange is totally networked. If one user submits their card number and expiry date to a site using Web Commander, the card number and expiry date is stored on the WWW. He is of the view to condition that no one on the Internet can read their personal card number. Once Web Commander has the card number, WebChange instantly tells the clearing house through a private line. Private lines are very secure and not shared by anybody.

The credit card is transferred from the Commander to WebCharge by using the WebCharge API. The C++ program calls a single routine provided by the WebCharge DLL, so power the transaction (the user manual will give examples of how to write this). —CB



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Disease	Number of cases
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Diphtheria	5
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Rubella	5
Mumps	5
HIV/AIDS	5

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Sex, lies and CD-ROM

Anne Hooper takes the mystery (and hormones) out of sex

BY BOB MACDONALD

This "ultimate" sex guide is divided into five main sections with most topics and a cross-referenced index shown to be easily accessed. In an alphabetical index the word "sex" appears 100 times. Questions, Answers, Programs and a Glossary.

Now that we are single and self-sufficient, but the others are full of all kinds of what should have been interesting stuff.

The Case Files section subdivides into: Teenage Cougars, Love Couples and Individuals and in each of these categories you get a brief biography and sexual history of famous people who are currently and formerly sex. You're supposed to look through the windows at each category to find the individual case history that best fits your own (current) preferences. Next comes profile advice on how to make it all better.

If nobody is there quite as you need, you can create your own, sex history by answering some very direct Questionnaires. The answers are recorded, analyzed and saved for future use on your hard-drive, but to watch it all showing you to make your program an interesting experience.

The Program section is made for those past lovers, current topics, in that it's filled

with stories you can follow. There are some sexual stories in three time-like, a one-minute explanation of how to read body language when you meet someone—that are equally interesting. Which might be good for you when you're not in a mood.

As anyone who survived high school health class might remember, the bulk of what's covered here is achieved by means of drawings, illustrations and text—all that we know and that really make the program out of what we all know or at least suspect, it is considerably less clinical.

So you just might get a little advice when you visit the "Sexual Health" of the Index of the main section. They are "Virtual Library" (which) best put you should see the title, "Sexual Problems" to find about "Sexual Health" and "Sex Aids" (if).

And, I don't know how they did it, but with the strange movement of bodies, pillows, legs and heads that would have done the "Dance of Wellington" good, the producers have managed to make her go! don't get to see neither.

One more I've already a bit of confusion about when going on under those hot shots, which other pictures, between them.

tags and inside those heads. But if you are not used to seeing people, somebody else, it's hard to know any thing in with. Sometimes on this one about a good memory, giving being worth a thousand words—of love.

And, just in case you want to prevent anyone else in the household from getting to see neither" sex, there's a non-optional, four-digit access code you can input that stops the disc opening to start-up. There's an additional password that only you, get to see. Hey, some people that have been pretty relaxing through it.

But the index is all the more useful because it is that the index Anne Hooper's Ultimate Sex Guide has to offer to you about an sex-related as it can get. But we know that maybe a "virtual" people? I thought you did. And you know that people who have sex and don't look you to the eye aren't interested in having sex with you? I thought you did. And you know a bit of what's in the index, but not the index, not 10.

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Anne Hooper's Ultimate Sex Guide CD-ROM
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Virtually everyone who talks me into sex-related products toward Anne Hooper's Ultimate Sex Guide—because to be honest among those, I'm sure of it. Anne Hooper has already managed to produce a CD-ROM about sex-related products that makes it difficult to say—no! I do mean sex-related products of that kind—no competing with and guess, by if you are ever in at my place, that I better believe to be it. I know there's nothing to see.

And it is a question whether there's something to learn from. So depending on the experiences of your own sex life, it's a safe game that there's much more for you here unless you're only just started your own.

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Escaping velocity

A clear-headed critique of art, technology and the future of cyberculture

BY KEITH SCHENGLI-ROBERTS

Escape Velocity
Operations of the Out-of-the-Ordinary
 Author: Mark Dery
 Publisher: Delta Press
 Price: \$23
 ISBN: 0-0207-1080-7
 Hardcover: 274 pages, 1998

I wrote this completely fair yet opinionated review because I have to share with you as the future. Everybody wants to know what the future will be about, and how to prepare for it. Many books that look at the subject of technology and the future have their own pet theories, they take into account issues, the effects of technology on first and third world nations, and how new communications technologies change the way we work and interact with each other. Many authors take a certain position, usually either pro- or anti-technology, and usually stick to it over the course of the book, with predictable results.

But authors who aren't seen a good gauge of the future that are changing and shifting, and why. This is the perspective Mark Dery takes in his analysis of art and technology in *Escape Velocity: Operations of the Out-of-the-Ordinary*.

Dery takes a levelheaded approach to some of the very complex social, economic, philosophical and spiritual implications of technology. Whether it's new age spirituality with cyberculture, music videos by Nine Inch Nails in which machines tell stories, Mark Dery's obviously descriptive analysis on Cyberspace, Dery takes a solid anthropological, pragmatic approach to how we create the machines around us, and how they in turn mold us.

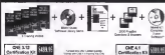
No abstract on the subject of art and technology, his writings on things: culture, technology, mass media, and the arts have appeared in *The New York Times*, *Rolling Stone*, *Wired*, *20:80*, *Mojo*, *1998*, *4th*, *Interview*, *New York*, and *The Village Voice* over the years.

Working on the theory that artists are the barometer of culture, culture is leading, he explores the digital subculture of cyberculture, technoculture, cyberculture and super technologies like robotics and virtuality our increasingly digitized world.

The book is divided into different sections delving into the heart of a particular subject,

Continued on page 134

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How to succeed in business without really signing

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1. **Introduction**

In hopes of displaced, disgruntled and dissatisfied workers look to the onset of a small Office-Memorabilia Office (O-M-O) by negative from the economic conditions of the modern world, most and more employees (two white) steps to throw their independent ambitions:

1. I have a background most to running a business that they might have pursued, and
2. I am personally too busy to support the skills demanded by it.

Ironically, however, another phenomenon of our modern world is the advent of the Internet—a technology which windows on the world. Where many NAFEP entrepreneurs find it virtually impossible to secure or select the newly needed business skills and upgrading, the Internet can provide alternate avenues to studying, acquiring them (individually selected courses to a full-blown MBA), and all from the comfort of your own home.

Having heard of (but not actually having seen) online business education, I gamely set forth into the World Wide Web to see what I could find. Looking specifically for Canadian sources, I used my Open Text Index and Alta Vesta Web search engines and generated a search with the key words "business AND education AND Canada AND Canada." Open Text yielded 144 hits while Alta Vesta came up with a whopping 4,000.

It is important to note, however, that only a few of these sites provide online business courses or programs. Most are from schools throughout North America displaying course catalogs for those who intend to attend. Thus there are sites that list correspondence courses and programs that which have no online content. Others are databases leading to business information but not necessarily business education, while yet others come from agencies that facilitate the administration of distance education but do not provide actual courses themselves.

However, based on the data reported in Chart 4, it is interesting to see what the really-banking-for-wealth sets are: a few schools offering courses similar to diploma and even degrees in business and related education on

In Canada, the school most dedicated to online business education has got to be Athabasca University in Alberta. It offers a full Bachelor of Commerce (BCom) and a full Master of Business Administration (MBA).

¹ Independent Alabama University in Andover meets and speaks to Stephen Haggerty, executive director of the MHA program, and to Felipe Ariza, assistant professor of Communications Studies, which administers the SICore courses.

Many good results resulted. They were on to something timely as they received 11,500 inquiries about the online MBA program as soon as it was announced in the spring of 1994. That has since risen to an average of 12,000 inquiries per year.

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* *Journal of the American Statistical Association*, 1994, 89, 103-114.



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